AMENDMENTS TO THE SPECIFICATION

Docket No.: 13987-00022-US

Please delete the sequence listing from the English translation of the international application and replace it with the sequence listing submitted on compact disc enclosed herewith.

In the specification at page 1, after the title and before line 4, please insert the following new paragraphs:

RELATED APPLICATIONS

This application is a national stage application (under 35 U.S.C. 371) of PCT/EP2005/002734 filed March 15, 2005, which claims benefit of European application 04006358.8 filed March 17, 2004.

SUBMISSION ON COMPACT DISC

The contents of the following submission on compact discs are incorporated herein by reference in its entirety: two copies of the Sequence Listing (COPY 1 and COPY 2) and a computer readable form copy of the Sequence Listing (CRF COPY), all on compact disc, each containing: file name: Final Sequence List-13987-00022-US, date recorded: September 14, 2006, size: 102 KB.

In the specification at page 9 line 34, please replace the paragraph starting with "The Damino acid" with the following amended paragraph:

The D-amino acid oxidase expressed from the DNA-construct of the invention has preferably metabolising activity against at least one D-amino acid and comprises a sequences motive having the following consensus sequence (SEQ ID NO: 17):

In the specification at page 33 line 14, please replace the paragraph starting with "In DAAO" with the following amended paragraph:

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In DAAO, a conserved histidine has been shown (Miyano M et al. (1991) J Biochem 109:171-177) to be important for the enzyme's catalytic activity. In a preferred embodiment of the invention a DAAO is referring to a protein comprising the following consensus motive (SEQ ID NO: 17):

In the specification at page 49 line 12, please replace Table 4 with the following amended Table 4:

Recombi-	Organism	Recombination Sites	SEQ ID
nase	of origin		<u>NO:</u>
CRE	Bacteriophage	5'-AACTCTCATCGCTTCGGATAACTTCCTGTTATCCGAAA	<u>18</u>
	P1	CATATCACTCACTTTGGTGATTTCACCGTAACT-	
		GTCTATGATTAATG-3'	
FLP	Saccharomyces	5'-GAAGTTCCTATTCCGAAGTTCCTATTCTCTAGAA AG-	<u>19</u>
	cerevisiae	TATAGGAACTTC-3'	
R	pSR1	5'-CGAGATCATATCACTGTGGACGTTGATGAAAGAATAC	<u>20</u>
	Plasmids	GTTATTCTTTCATCAAATCGT	

In the specification starting at page 56 through to page 59, please replace Table 5 with the following amended Table 5:

DSBI	Organism	Recognition sequence	SEQ ID
Enzyme	of origin		<u>NO :</u>
P-	Drosophila	5'-CTAGATGAAATAACATAAGGTGG	<u>21</u>
Element			
Trans-			
posase			
I-Anil	Aspergillus nidu- lans	5'-TTGAGGAGGTT^TCTCTGTAAATAANNNNNNNNNNNNNNNNNNNNNNNNNNN	22
I-Ddil	Dictyostelium discoideumAX3	5'-TTTTTTGGTCATCCAGAAGTATAT 3'-AAAAAACCAG^TAGGTCTTCATATA	23
I-Cvul	Chlorella vulgaris	5'-CTGGGTTCAAAACGTCGTGA^GACAGTTTGG 3'-GACCCAAGTTTTGCAG^CACTCTGTCAAACC	24
I-Csml	Chlamydomonas smithii	5'-GTACTAGCATGGGGTCAAATGTCTTTCTGG	<u>25</u>

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In the specification at page 89 line 1, please replace the paragraph starting with "Fig.: 12" with the following amended paragraph:

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Fig.: 12 Alignment of the catalytic site of various D-amino acid oxidases

Multiple alignment of the catalytic site of various D-amino acid oxidases allows for
determination of a characteristic sequence motif [LIVM]-[LIVM]-H*-[NHA]-Y-G-x[GSA]-[GSA]-x-G-x₅-G-x-A (SEQ ID NO: 17), which allows for easy identification of
additional D-amino acid oxidases suitable to be employed within the method and DNAconstructs of the invention.

In the specification at page 90 line 32, please replace the paragraph starting with "The yeast" with the following amended paragraph:

The yeast R. gracilis was grown in liquid culture containing 30 mM D-alanine to induce dao1, the gene encoding DAAO. Total RNA was isolated from the yeast and used for cDNA synthesis. The PCR primers

- 5'-ATTAGATCTTACTACTCGAAGGACGCCATG-3' (SEQ ID NO: 77) and
- 5'-ATTAGATCTACAGCCACAATTCCCGCCCTA-3' (SEQ ID NO: 78)